

Postgraduate Certificate

New Developments in General Therapeutics of Hematologic Diseases





Postgraduate Certificate New Developments in General Therapeutics of Hematologic Diseases

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 8h/week
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/pk/medicine/postgraduate-certificate/new-developments-general-therapeutics-hematologic-diseases

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01

Introduction

This Postgraduate Certificate in New Developments in General Therapeutics of Hematologic Diseases aims to achieve the specialization of the medical professional in this field. Don't miss this opportunity and join our community of students. You will advance in your career thanks to this 100% online training.



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Learn about the latest advances in the specialty and get yourself up to date in order to provide the best care to your patients”

At present, the specialty of hematology is a pioneer in innovation in diagnosis and treatment and it should be noted that hematologists are leaders in the clinical application of immunotherapy in the fight against the different blood cancers.

Different scientific societies around the world that deal with this specialty strive to rapidly incorporate the results of biomedical research into clinical practice, especially the treatment of hematological malignancies (blood cancers), but also iron deficiency and anemias, the administration of direct-acting oral anticoagulants-DOACs, bone marrow transplants and, in the long-term, research focused on obtaining artificial blood, with the ultimate aim of ensuring that healthcare managers include these techniques in the services provided by national healthcare systems as soon as possible.

The reasons why hematology and hemotherapy is one of the fastest progressing medical disciplines in terms of knowledge and technology in recent decades lie in the integration of biological and clinical knowledge, which has led to a better understanding of the mechanisms of disease, thereby facilitating the development of more appropriate guidelines for clinical action. All of this has contributed to hematology and hemotherapy reaching a remarkable degree of maturity and justifying its future as an integrated specialty, this being the ideal framework for training and improving specialists in this area of medical knowledge.

This Postgraduate Certificate in New Developments in General Therapeutics of Hematologic Diseases endorses the latest advances in research and the highest scientific evidence, with a robust and didactic teaching program that positions it as a teaching product of the highest scientific rigor at international level, aimed at health professionals, who in their daily clinical practice face the care of patients or populations with hemorrhagic diseases. In addition, the training program is based on a multidisciplinary approach to its subjects, which allows training and professional development in different areas.

This Postgraduate Certificate in **New Developments in General Therapeutics of Hematologic Diseases** contains the most complete and up-to-date scientific program on the market. The most important features of the program include:

- ◆ Clinical symptoms cases presented by experts in hematology.
- ◆ The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional.
- ◆ Diagnostictherapeutic developments on assessment, diagnosis, and treatment in hematology patients..
- ◆ Practical exercises where the self-assessment process can be carried out to improve learning.
- ◆ The Iconography of clinical and diagnostic imaging tests.
- ◆ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course..
- ◆ With special emphasis on evidence-based medicine and research methodologies in hematology.
- ◆ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments.
- ◆ Content that is accessible from any, fixed or portable device with an Internet connection..

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With the TECH Postgraduate Certificate in New Developments in General Therapeutics of Hematologic Diseases have the opportunity to update your knowledge conveniently and without sacrificing the utmost scientific accuracy”

The teaching body is made up of respected and renowned professionals with extensive experience in healthcare, teaching, and research, who have work in many countries where these diseases are prevalent.

The methodological design of this Postgraduate Certificate, developed by a multidisciplinary team of e-learning experts, integrates the latest advances in educational technology for the creation of numerous multimedia educational tools allow the professional, based primarily on the problem-based learning method, to address real problems in their daily clinical practice, which will allow them to advance by acquiring knowledge and developing skills that will impact their future professional work.

It should be noted in this course that each of the contents generated, as well as the videos, self-evaluations, clinical cases and exams, have been thoroughly reviewed, updated, and integrated by the team of experts that make up the faculty, to ensure that the learning process is orderly and instructive in order to achieve the program's objectives.

This course offers training in simulated environments, which provides an immersive learning experience designed to train for real-life situations.

It includes clinical cases to bring the program's degree as close as possible to the reality of care in medicine.



02 Objectives

The main objective of this course is to improve healthcare professionals, through the acquisition of the most up-to-date and innovative scientific knowledge in the field of hematology and hemotherapy that will allow them to develop the skills that will turn their daily clinical practice into a representation of the best available scientific evidence, with a critical, innovative, multidisciplinary, and integrative approach.





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This program will provide you with a sense of confidence in your medical practice, which will help you grow personally and professionally”



General Objective

- ◆ Update the specialist's knowledge through the latest scientific evidence in the diagnosis and treatment of hematological diseases, in order to develop measures to prevent, diagnose, treat, and rehabilitate hematological diseases, with a multidisciplinary and integrative approach that supports medical care with the highest quality standards for managing and monitoring hematology patients..





Specific Objectives

- ◆ Discuss the importance of a comprehensive and integrated care approach among all specialties involved in caring for these patients.
- ◆ An in-depth look at the most innovative and developing alternatives offered when caring for these patients.
- ◆ Emphasize the development of new drugs for the future and other treatment approaches for controlling these diseases.



Don't miss the opportunity and get up-to-date on new developments in General Therapeutics of Hematologic Diseases to incorporate them into your daily medical practice"

03

Course Management

Renowned and recognized medical specialists with numerous publications, teaching experience, and professional experience in many countries, where many of the diseases studied have a high morbimortality, participate in the teaching program. The teaching team is made up of a multidisciplinary faculty from various medical specialties, such as hematology, internal medicine, pediatrics, gynecology and obstetrics, pathological anatomy, and pharmacology who are involved in the care of these patients.





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*Learn about the latest advances in
hematology and hemotherapy from
leading professionals”*

International Guest Director

Dr. Joseph Hai Oved is a pediatric **hemato-oncology** specialist at Memorial Sloane Kettering Cancer Center, considered one of the best cancer centers in the world. His work focuses on **stem cell and bone marrow transplantation**, as well as cell therapies, to treat non-cancerous diseases. His work in the field of transplantation to patients with difficult-to-treat immune dysfunctions or inherited immune deficiencies, as well as those with bone marrow failure syndromes, is particularly noteworthy.

His research is prolific in the hemato-oncology area, seeking new ways to personalize transplantation to achieve a precise cure with minimal side effects. He has studied in depth the effects of the different techniques used to manipulate donated stem cells, extracting or adding specific cells of interest. He has also analyzed how exposure to different conditioning agents (chemotherapies or other drugs used to prepare the body for transplantation) affect outcomes. His work has advanced the identification of biomarkers to more accurately predict transplant outcomes.

Joseph is a member of **several national and international groups in bone marrow transplantation, hematology and immunology**. He serves on committees of many of these organizations, where they discuss potential future therapies, clinical trials and efforts to further advance the field of pediatric transplantation and cellular therapies worldwide.

All his scientific contribution places him as a reference in his field, receiving several awards. These include two fellowships awarded by the Howard Hughes Medical Institute, one of the largest privately funded organizations for biological and medical research in the United States. He also received a fellowship in immunology from the Weizmann Institute of Science, considered one of the most advanced multidisciplinary research institutions in the world.



Dr. Hai Oved, Joseph

- Pediatrician specialized in hemato-oncology at the MSK Cancer Center - New York
- Member of the Scientific Advisory Board of Emendo Biotherapeutics.
- Managing Partner of New World Health, LLC
- Observer on the board of BioTrace Medical Inc.
- Pediatrician specializing in hemato-oncology at Children's Hospital of Philadelphia
- M.D. from NYU School of Medicine
- Fellowship in pediatric hemato-oncology at Children's Hospital of Philadelphia
- Residency in Pediatrics at New York Presbyterian Weill Cornell Medical College

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Thanks to TECH, you will be able to learn with the best professionals in the world”

Guest Director



Dr. Martínez-López, Joaquín

- ♦ Head of the Hematology Department at the 12 de Octubre Hospital, Madrid.
- ♦ PhD in Medicine from the Complutense University of Madrid.
- ♦ Hematology Medical Specialist
- ♦ Director of the translational research group and the early clinical trials unit in hematology at 12 de Octubre Hospital.
- ♦ 140 publications in international scientific journals.
- ♦ President of AltumSequencing.

Professors

Dr. Carreño Gómez-Tarragona, Gonzalo

- ♦ Specialist physician at the 12 de Octubre University Hospital.
- ♦ Degree in Medicine. Autonomous University of Madrid. 2013.
- ♦ Professional Master's Degree in Hematopoietic Transplantation. University of Valencia. 2019
- ♦ Cytology Course in Myelodysplasia. Del Mar Hospital. 2017.
- ♦ Teaching collaborator for the following subjects: Hematology and Hemotherapy, Degree of Medicine (Complutense University of Madrid); and Advances in Vascular Function, Degree of Medicine (Autonomous University of Madrid).
- ♦ Participation in the Clinical Research Ethics Committee at the 12 de Octubre University Hospital. 2019.
- ♦ Participation in national and international conferences.
- ♦ Distinction as Best Scientific Communication. VII National Research Conference for Undergraduate Students in Health Sciences. Complutense University of Madrid. 2013.

Dr. Sánchez Pina, José María

- ♦ Attending Physician in the area of hospitalization and hematopoietic transplantation. Member of the cell therapy group. Since 2017
- ♦ Degree in Medicine. University of Alcalá. 2006-2012
- ♦ Professional Master's Degree in Hematopoietic Transplantation, 4th edition, University of Valencia
- ♦ Resident intern of Hematology and Hemotherapy at 12 de Octubre University Hospital in Madrid. 2013-2017
- ♦ Teaching collaborator in the Professional Master's Degree in Translational Medicine. The Complutense University of Madrid; and Professional Master's Degree in Organ and Tissue Transplants. European University of Madrid.

**Dr. Rodríguez Rodríguez, Mario**

- ◆ Specialist in Thrombophilia and Hemostasis consultation and in basic and special coagulation laboratory at the 12 de Octubre University Hospital. Since June 2017.
- ◆ Graduate in Medicine and Surgery from the Complutense University of Madrid. Class of 2006 - 2012.
- ◆ Hematology on-call duty as an attending physician (FEA). Since June 2017.
- ◆ Resident Medical Intern in Hematology and Hemotherapy at the 12 de Octubre University Hospital (21/05/2013 - 21/05/2017).
- ◆ Participation in quality work for ENAC accreditation in the coagulation laboratory at the 12 de Octubre University Hospital.
- ◆ Usability study/evaluation of the cobas t711 coagulometer, Roche Diagnostics.
- ◆ Participation in the following publications: "Evaluation of The MD Anderson Tumor Score for Diffuse Large B-cell Lymphoma in the Rituximab Era", "Clinical course and risk factors for mortality from COVID-19 inpatients with haematological malignancies" and "Thrombosis and antiphospholipid antibodies in patients with SARS-COV-2 infection (COVID-19)", among others.

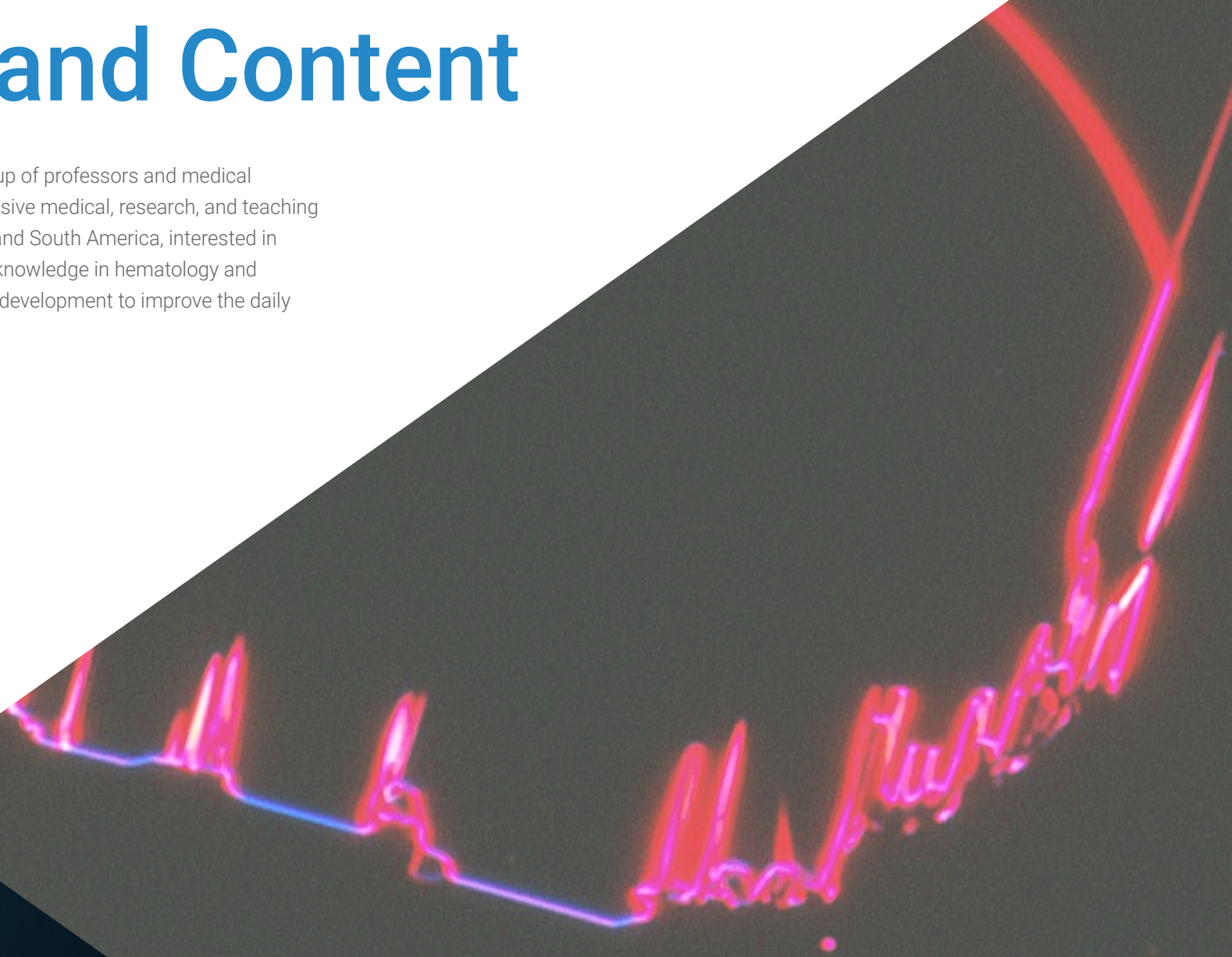
Dr. Paciello Coronel, María Liz

- ◆ Specialist in Hematology and Hemotherapy. 12 de Octubre University Hospital. Since 2008.
- ◆ Graduate in Medicine and Surgery. National University of Asunción, Paraguay.
- ◆ Collaborator in clinical trials as principal investigator and sub-investigator.

04

Structure and Content

The teaching program has been created by a group of professors and medical professionals from various specialties, with extensive medical, research, and teaching experience in several countries in Africa, Central and South America, interested in integrating the latest and most current scientific knowledge in hematology and hemotherapy to ensure training and professional development to improve the daily clinical practice of professionals.

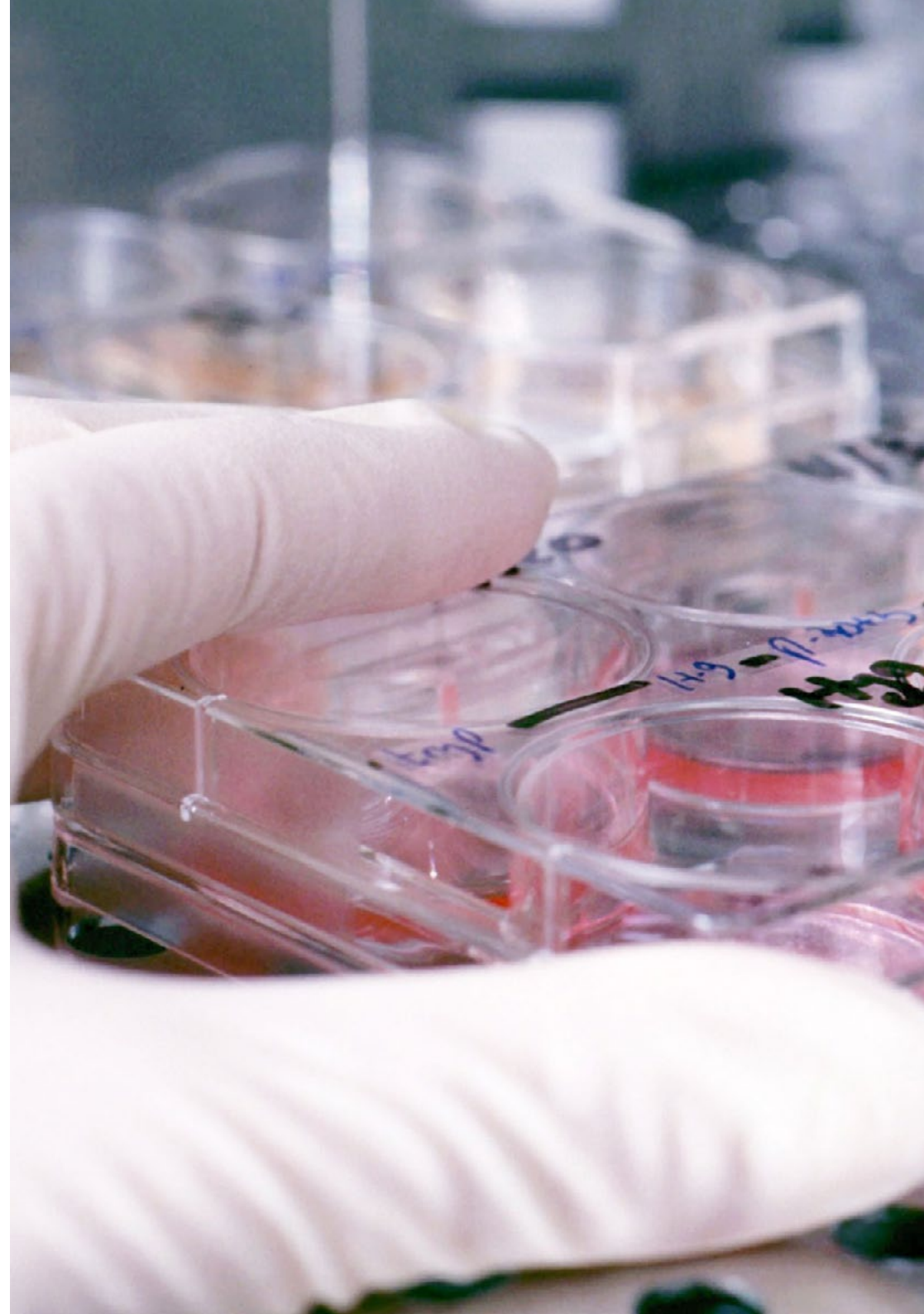


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We have the most complete and up-to-date academic program in the market. We strive for excellence and for you to achieve it too"

Module 1. New Developments in the General Treatment of Hematologic Diseases

- 1.1. Antineoplastic Agents
 - 1.1.1. Groups
 - 1.1.2. Mechanisms of Action
 - 1.1.3. Pharmacodynamics
 - 1.1.4. Pharmacokinetics
 - 1.1.5. Dosage and Presentation
 - 1.1.6. Adverse Effects
- 1.2. Treatment of Infections in Hematology Patients:
 - 1.2.1. Febrile Neutropenic Patients
 - 1.2.2. Most Frequent Infections in Hematology Patients
 - 1.2.3. Most Frequently Used Antibiotic Treatments
- 1.3. Hematopoietic Progenitor Cell Transplantation:
 - 1.3.1. General Concepts
 - 1.3.2. Indications
 - 1.3.3. Results and Impact
- 1.4. Methods and Indications for Cell Therapy:
 - 1.4.1. General Concepts
 - 1.4.2. Types of Cell Therapy
 - 1.4.3. Indications
 - 1.4.4. Results and Impact
- 1.5. Principles of Gene Therapy:
 - 1.5.1. General Concepts
 - 1.5.2. Indications
 - 1.5.3. Results and Future Impact
- 1.6. Monoclonal Antibodies in Hematological Malignancies
 - 1.6.1. General Principles
 - 1.6.2. Indications
 - 1.6.3. Impact of Use



- 1.7. Innovative CAR-T Cell Treatment of Hematological Malignancies
 - 1.7.1. General Principles
 - 1.7.2. Indications
 - 1.7.3. Impact of Use
- 1.8. Palliative Care for Hematology Patients:
 - 1.8.1. General Concepts
 - 1.8.2. Treatment of the Main Symptoms in Oncohematology Patients
 - 1.8.3. Palliative Care in the End-Stage Patient and End-of-Life Care

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*A unique, key, and decisive
Training experience to boost
your professional development”*

05

Methodology

This training program provides you with a different way of learning. Our methodology uses a cyclical learning approach: *Re-learning*.

This teaching system is used in the most prestigious medical schools in the world, and major publications such as the *New England Journal of Medicine* have considered it to be one of the most effective.



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Discover Re-learning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

At TECH we use the Case Method

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you can experience a way of learning that is shaking the foundations of traditional universities around the world.



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching potential or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in professional medical practice.

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Did you know that this method was developed in 1912 at Harvard for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only grasp concepts, but also develop their mental capacity by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



Re-Learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our University is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, which represent a real revolution with respect to simply studying and analyzing cases.



The physician will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.

At the forefront of world teaching, the Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

Re-learning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

In our program, learning is not a linear process, but rather a spiral (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by our learning system is 8.01, according to the highest international standards.



06 Certificate

Through a different and stimulating learning experience, you will be able to acquire the necessary skills to take a big step in your training. An opportunity to progress, with the support and monitoring of a modern and specialized university, which will propel you to another professional level.



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Include in your training the course certificate of New Developments in General Therapeutics of Hematologic Diseases: a highly qualified added value for any professional in this field"

This Postgraduate Certificate in New Developments in General Therapeutics of Hematologic Diseases contains the most complete and up-to-date scientific program on the market.

After students have passed the assessments, they will receive their Postgraduate Certificate Certificate issued by TECH Technological University and sent by certified mail.

The certificate issued by TECH Technological - University will express the qualification obtained in the Postgraduate Certificate, and will meet the requirements of the labor exchanges, competitive examinations and professional career evaluation committees.

Title: Postgraduate Certificate in New Developments in General Therapeutics of Hematologic Diseases

Official Number of Hours: 125



*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.

health future
confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge presence
online development languages
virtual classroom



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